

**METHOD FOR COMPUTING ALL OCCURRENCES OF A COMPOUND  
EVENT FROM OCCURRENCES OF PRIMITIVE EVENTS**

**ABSTRACT OF THE DISCLOSURE**

5                   A method for computing all occurrences of a compound event from  
occurrences of primitive events where the compound event is a defined combination  
of the primitive events. The method includes the steps of: (a) defining primitive event  
types; (b) defining combinations of the primitive event types as a compound event  
type; (c) inputting the primitive event occurrences, such occurrences being specified  
10 as the set of temporal intervals over which a given primitive event type is true; and (d)  
computing the compound event occurrences, such occurrences being specified as the  
set of temporal intervals over which the compound event type is true, where the sets of  
temporal intervals in steps (c) and (d) are specified as smaller sets of spanning  
intervals, each spanning interval representing a set of intervals.

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TOP SECRET